

-32-

WHAT IS CLAIMED IS:

5

1. A recording medium apparatus for loading a recording medium having a terminal at a front edge side thereof with respect to an insertion direction wherein the recording medium is loaded by inserting the recording
10 medium toward a loading position under a status where the terminal is connected to a connector of the recording medium apparatus, comprising:

a slider connector unit having the connector, said slider connector unit being shifted by pushing of the
15 recording medium;

a slider unit, when the recording medium reaches a predefined position within the recording medium apparatus, being pushed and shifted by a portion of the recording medium, said portion being at a side opposite to
20 the insertion direction;

a slider connector unit lock part locking the slider connector unit, said slider connector unit lock part, when the terminal of the recording medium is connected to the connector, unlocking the slider connector
25 unit;

a slider unit lock part locking the shifted slider unit, said slider unit lock part, in response to an eject operation, unlocking the slider unit; and

a spring member being elastically deformed by
30 shifting of the slider unit, thereby said spring member applying an ejection force to the recording medium via the slider unit.

-33-

2. A recording medium apparatus for loading a
5 plurality of types of recording media wherein each of the
recording media has a terminal at a front edge side
thereof with respect to an insertion direction and a
common dimension part configured to have an equal
10 dimension at a side opposite to the insertion direction,
and the recording medium is loaded by inserting the
recording medium toward a loading position under a status
where the terminal is connected to a connector of the
recording medium apparatus, comprising:

15 a lock part locking the recording medium at the
loading position, said lock part, in response to an eject
operation, unlocking the recording medium,

wherein the lock part operates based on the
common dimension part.

20

3. The recording medium apparatus as claimed in
claim 2, wherein each of the plurality of types of
25 recording media comprises a guide groove formed on a side
surface thereof, the guide groove extending from the front
edge side with respect to the insertion direction to a
position opposite to the insertion direction, the common
dimension part is positioned at an end portion of the
30 guide groove, and the lock part is activated by the end
portion of the guide groove.

-34-

4. The recording medium apparatus as claimed in claim 2, further comprising:

5 a spring member being elastically deformed by inserting of each of the plurality of types of recording media toward the loading position thereof, thereby said spring member applying an ejection force to the recording medium.

10

5. A recording medium apparatus for loading a recording medium having a terminal at a front edge side thereof with respect to an insertion direction, comprising:

 a connector connectable to the terminal of the recording medium;

20 a recording medium load part shifting and loading the recording medium connected to the connector by using a motor; and

 an operation stop part, when a portion opposite to an insertion direction of the recording medium reaches a predefined position regardless of a length of the recording medium with respect to the insertion direction, stopping an operation of the recording medium load part.

30

6. A recording medium apparatus for loading a plurality of types of recording media wherein each of the

-35-

recording media has a terminal at a front edge side thereof with respect to an insertion direction and a common dimension part configured to have an equal dimension at a side opposite to the insertion direction,
5 comprising:

a connector connectable to the terminal of the recording medium;

a recording medium load part shifting and loading the recording medium connected to the connector by
10 using a motor; and

an operation stop part detecting the common dimension part of the recording medium and stopping an operation of the recording medium load part.

15

7. The recording medium apparatus as claimed in claim 6, wherein the operation stop part is a switch
20 operable in response to pushing of the common dimension part of the recording medium.

25

8. The recording medium apparatus as claimed in claim 6, wherein each of the plurality of types of recording media comprises a guide groove formed on a side surface thereof, the guide groove extending from the front
30 edge side with respect to the insertion direction to a position opposite to the insertion direction, the common dimension part is positioned at an end side of the guide groove, the operation stop part is configured as a switch

-36-

including a movable contact part engaged with the guide groove, and the switch is not pushed during engagement with the guide groove and is operated in response to pushing of an end part of the guide groove.